

## Sun Netra™ X4250 Server

Cutting-edge performance and expandability in a compact, 2 RU carrier-grade package



The Sun Netra™ X4250 server is a two-socket, carrier-grade x64 server that's ideal for next-generation networks. Its compact 2 RU design is powered by Intel Xeon Processors — high performance, low power — and it's easy to maintain and scale up to meet your needs as your business grows.

### Highlights

- Space- and energy-efficient two-socket, 20 in.-deep, rack-optimized 2 RU design
- Telcordia Network Equipment Building Standard (NEBS) Level 3 certification and ETSI compliance for reliable operation in severe environmental conditions
- Enhanced system uptime supported by redundant AC or DC power supplies and hot-pluggable disk drives
- Simplified state-of-the-art maintenance with Integrated Lights Out Manager (ILOM)
- Exceptional expandability and I/O performance with six PCI slots, four Ethernet interfaces, and support for 16 memory slots
- Choice of operating systems: the Solaris™ OS, Linux, VMware, or Windows
- Optional professional services, training, and integration support to optimize your server implementation

Based on the Intel Xeon Processor, the carrier-grade Sun Netra X4250 server combines cutting-edge performance with the ruggedness and reliability of the Sun Netra server family. The energy-efficient system can expand up to an eight-way configuration, all in a compact, 20 in.-deep, 2 RU footprint.

The Sun Netra X4250 server offers you a choice of operating systems. In addition to supporting the Solaris OS, the server provides support for Linux, VMware, and Windows operating systems, giving you flexibility, efficiency, and investment protection. The system also offers 16 memory slots, four internal disk drives, and six PCI slots — two PCI-X and four PCI Express (PCIe) — and integrates four GbE ports to provide

connectivity for high-speed, high-bandwidth networking. The system's uptime is enhanced by redundant hot-swappable AC/DC power supplies and hot-pluggable hard disk drives. And the Sun Netra X4250 server comes with ILOM, which enables simple remote monitoring and management from anywhere on the network. As with other Sun Netra servers, the Sun Netra X4250 server is NEBS Level 3 certified and ETSI compliant — making it ideal for the most demanding applications in the toughest environments.

Sun offers a suite of services to optimize your Sun Netra X4250 server implementation. SunSpectrum™ Support focuses on delivering proven expertise and responsive, consistent service quality, to help you achieve high availability within your network infrastructures.



## Sun Netra X4250 Server Specifications

### Processor

Intel Xeon Processor L5408

### Main memory

16 DIMM slots, PC2-5300 667 MHz ECC fully buffered DDR2 DIMMs, up to 64 GB memory

### System architecture

Based on two-socket Intel Xeon Processor architecture (eight cores total)

### Standard/integration interfaces

Network: Four 10/100/1000 Mbps Ethernet

Network management: One 10/100 Mbps Ethernet port

Serial management: One TIA/EIA-232-F asynchronous RJ-45 port

USB: Two 2.0 USB ports (rear)

Expansion bus: Three PCIe slots for MD2 low-profile cards — two x4 electrical/x8 mechanical; one x8 electrical/x8 mechanical — one of these slots is used for the internal SAS host bus adapter (HBA)

One PCIe slot for full-height, full-length cards (x8 electrical, x16 mechanical)

Two PCI-X slots for full-height cards (x1 full-length, x1 half-length) — 64-bit, 133 MHz

Video: One VGA video port (HD-15)

Alarms: Four fail-safe, dry contact alarms — critical, major, minor, and user — DB-15

### Mass storage and media

Internal disk option: Up to four SAS disks, with no DVD-R/W, or up to two SAS disks with DVD-R/W

Optional RAID levels: 0, 1, 1E, 5, 5EE, 6, 10, 50, 60

### Software

Operating systems: Supports the Solaris OS — beginning with the Solaris 10 OS 8/07, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESX Server, Windows Server 2003, Windows Server 2008

### Remote management

Management: ILOM providing: DMTF CLP-based CLI over SSH; Web-based GUI over HTTPS; IPMI 2.0, SNMP v1, v2c, and v3, remote graphical access (remote KVM) over Ethernet and remote storage over Ethernet

### Power supplies

Two 1+1 redundant DC or AC hot-swappable power supplies

Maximum power supply rating: 650 W

### Environment

DC power: -48 V DC or -60 V DC

AC power: 100–240 V AC, 50–60 Hz

Operating temperature: 5° C to 40° C (41° F to 104° F), short-term -5° C to 55° C (23° F to 131° F)

Operating relative humidity: 5–85%, noncondensing

Short-term relative humidity: 5–90%, noncondensing, but not to exceed 0.024 kg water/kg dry air (0.053 lb. water/2.205 lbs. dry air)

Operating altitude: Up to 3,000m (9,850 ft.) at 40° C

Nonoperating temperature: -40° C to 70° C (-40° F to 158° F)

Nonoperating relative humidity: Up to 93%, noncondensing, 40° C (104° F)

Nonoperating altitude: Up to 12,000m (40,000 ft.)

Acoustic noise: Operating/idling 7.3 B (LwAd: 1 B = 10 dB)

### Learn More

To learn more about the Sun Netra X4250 server, go to: [sun.com/netra/x4250](http://sun.com/netra/x4250).

ETSI: EN 300019-2-1,2,3, Class 1.2, 2.3, 3.1E (except condensing humidity and rain)

NEBS: NEBS Level 3 certified by Telcordia

Seismic: GR-63-CORE requirements for Earthquake Zone 4

### Dimensions and weight

Height: 87.1mm (3.43 in.)

Width: 445mm (17.52 in.) including bezel

Depth: 526mm (20.71 in.) max., to PSU handles

Depth: 501mm (19.72 in.) max., to rear I/O

Weight: 17.5 kg (38.5 lbs.) fully configured without PCI cards

### Regulations (meets or exceeds the following requirements)

Safety: UL/CSA 60950-1, EN 60950-1, IEC 60950-1 CB Scheme with all national differences, IEC 825-1, 2, and CFR 21 part 1040

RFI/EMC: EN 55022/CISPR 22 Class A, FCC CFR 47 Part 15 Class A

Immunity: EN 55024/CISPR 24, EN 61000-3-2, EN 61000-3-3

Telecommunications: EN 300 386

Regulatory markings: CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, MIC, UL/cUL, S-Mark, BSMI, CCC

Other: Restriction of Hazardous Substances (RoHS) labeled, per WEEE (Waste Electrical and Electronics Equipment) Directive (2002/95/EC)